



SEQUENCE LISTING

- (1) GENERAL INFORMATION:
- (i) APPLICANT: RABIN, Mark B.
- (ii) TITLE OF INVENTION: MUTATIONS IN THE BRCA1 $$\operatorname{\textsc{Gene}}$$
- (iii) NUMBER OF SEQUENCES: 10
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Howrey & Simon
 - (B) STREET: 1299 Pennsylvania Avenue, N.W.
 - (C) CITY: Washington
 - (D) STATE: DC

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- (E) COUNTRY: USA
- (F) ZIP: 20004
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: Windows
 - (D) SOFTWARE: FastSEQ for Windows Version 2.0b
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Mendelson, Elliot C
 - (B) REGISTRATION NUMBER: P42,878
 - (C) REFERENCE/DOCKET NUMBER: 05371.0032.999
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 202-383-7073
 - (B) TELEFAX: 202-383-6610
 - (C) TELEX:
 - (2) INFORMATION FOR SEQ ID NO:1:





(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5710 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

	AGCTCGCTC	A GACTTCCTG	ACCCCCCAC	- ACCCTCTCCC	- Commonara		
	, CCTGCGCTC	A GGAGGCCTTC	ACCCTCTCC	CTCCCTAAA	GITTCTCAGA	TAACTGGGCC CAGAAAGAA	60
± 1.¢	TGGATTTAT	C TGCTCTTCGC	CTTCAACAA	T CIGGGIAAA(TICATIGGA	CAGAAAGAAA	120
10		G TCCCATCTG1		TACAAAAIG	CATTAATGCT	ATGCAGAAAA	180
giantes Espanie	ACATATTT	G CAAATTTTGO	· ATGCTCANAC	T TUAAGGAACC	TGTCTCCACA	AAGTGTGACC	240
ull.	GTCCTTTAT	G TAAGAATGAT	' ATGCIGAAAC	CORCCOMP CE	GAAGAAAGGG	CCTTCACAGT	300
	AACTTGTTG	A AGAGCTATTO	AIAACCAAA	A GGAGCCTACA	AGAAAGTACG	AGATTTAGTC	360
M	ATGCAAACA	A AGAGCTATTO	CCANANACCII	. GIGCTITICA	GCTTGACACA	GGTTTGGAGT	420
115	AAGTTTCTA	G CTATAATTTT	JOAAAAAQU	AAAATAACTC	TCCTGAACAT	CTAAAAGATG	480
	AACCCGAAA	T CATCCAAAGT	CACCAAACCA	GAAACCGTGC	CAAAAGACTT	CTACAGAGTG	540
	CTGTGAGAA	A TCCTTCCTTG	AACCACCCA	GICTCAGTGI	CCAACTCTCT	AACCTTGGAA	600
M	AATTGGGAT	C TCTGAGGACA	CAAGCAGCGGA	TACAACCTCA	AAAGACGTCT	GTCTACATTG	660
	ATCAAGAAT	C TGATTCTTCT	ACCCCTCDAC	TTAATAAGGC	AACTTATTGC	AGTGTGGGAG	720
20	CAAAAAAGG	T GTTACAAATC	ACCCCICAAC	GAACCAGGGA	TGAAATCAGT	TTGGATTCTG	780
	CCAGTAATA	C TGCTTGTGAA	ACCACMCAGA	CGGATGTAAC	AAATACTGAA	CATCATCAAC	840
Sales Sales	ATCAGGGTA	A TGATTTGAAC	ACCACTGAGA	AGCGTGCAGC	TGAGAGGCAT	CCAGAAAAGT	900
	GCTCATTAC	TTCTGTTTCA	AACTTGCATG	TGGAGCCATG	TGGCACAAAT	ACTCATGCCA	960
	AGGCTGAAT	A GCATGAGAAC	AGCAGTTTAT	TACTCACTAA	AGACAGAATG	AATGTAGAAA	1020
25	GGGCTGGAA	CTGTAATAAA	AGCAAACAGC	CTGGCTTAGC	AAGGAGCCAA	CATAACAGAT	1080
games.	ATCTGAATG	TAAGGAAACA	TGTAATGATA	GGCGGACTCC	CAGCACAGAA	AAAAAGGTAG	1140
	CAGAGAATCO	TGATCCCCTG	CAACAGAGAA	AAGAATGGAA	TAAGCAGAAA	CTGCCATGCT	1200
	AAGTTAATG	TAGAGATACT	ACAACATGTTC	CTTGGATAAC	ACTAAATAGC	AGCATTCAGA	1260
	GGGAGTCTG	A GTGGTTTTCC	AGAAGTGATG	AACTGTTAGG	TTCTGATGAC	TCACATGATG	1320
30	AATATTCTCC	ATCAAATGCC TTCTTCAGAG	AAAGIAGCIG	ATGTATTGGA	CGTTCTAAAT	GAGGTAGATG	1380
	TATGTAAAA	TGAAAGAGTT	AAAATAGACT	TACTGGCCAG	TGATCCTCAT	GAGGCTTTAA	1440
		CTATCGGAAG		CAGTAGAGAG	TAATATTGAA	GACAAAATAT	1500
	ΤΔΑΨΤΑΤΑΘΟ	ACCATTTCCTAAG	AAGGCAAGCC	TCCCCAACTT	AAGCCATGTA	ACTGAAAATC	1560
	A TTA A A CCC	AGCATTTGTT TAAAAGGAGA	ACTGAGCCAC	AGATAATACA			1620
35	CAGATTTGGG	ACTTCA A A A C	ACTICATION	GCCTTCATCC	TGAGGATTTT	ATCAAGAAAG	1680
	AGAATGGTCA	AGTTCAAAAG	ACTCCTGAAA	TGATAAATCA	GGGAACTAAC	CAAACGGAGC	1740
	CTATTCACAA	AGTGATGAAT	ATTACTAATA	GTGGTCATGA	GAATAAAACA	AAAGGTGATT	1800
	AAACGAAACG	TGAGAAAAT	CCTAACCCAA	TAGAATCACT	CGAAAAAGAA	TCTGCTTTCA	1860
	ACA ATTCA A A	TGAACCTATA AGCACCTAAA	AGCAGCAGTA	TAAGCAATAT	GGAACTCGAA	TTAAATATCC	1920
40				TGAGGAGGAA			1980
••		ACTAGTAGTC		TAAGCCCACC	TAATTGTACT	GAATTGCAAA	2040
	CCCACACCAC	TTCTAGCAGT	GAAGAGATAA				2100
	GGCACAGCAG	AAACCTACAA	CTCATGGAAG	GTAAAGAACC	TGCAACTGGA	GCCAAGAAGA	2160
	GIAACAAGCC	AAATGAACAG	ACAAGTAAAA	GACATGACAG	TGATACTTTC	CCAGAGCTGA	2220
45	MGI TAACAAA	TGCACCTGGT	TCTTTTACTA	AGTGTTCAAA	TACCAGTGAA	CTTAAAGAAT	2280
1.0	TTGTCAATCC	TAGCCTTCCA	AGAGAAGAAA	AAGAAGAGAA	ACTAGAAACA	GTTAAAGTGT	2340





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	CTAATAATGC	TGAAGACCC	AAAGATCTCA	A TGTTAAGTGO	G AGAAAGGGT'	T TTGCAAACTG	2400
	AAAGATCTGT	' AGAGAGTAGO	CAGTATTTCAC	C TGGTACCTGG	TACTGATTA	T GGCACTCAGG	2460
	AAAGTATCTC	: GTTACTGGA	A GTTAGCACTO	TAGGGAAGGC	C AAAAACAGA	4 ССАДАТАДАТ	2520
5	GTGTGAGTCA	. GTGTGCAGCA	A TTTGAAAACC	C CCAAGGGACT	' AATTCATGG	P TGTTCCAAAC	2580
3	ATAATAGAAA	. TGACACAGAA	GGCTTTAAG1	ATCCATTGGG	ACATGAAGT	T AACCACAGTC	2640
	GGGAAACAAG	CATAGAAATG	GAAGAAAGTO	AACTTGATGC	TCAGTATTT	CACAATACAT	2700
	TCAAGGTTTC	AAAGCGCCAG	TCATTTGCTC	C TGTTTTCAAA	TCCAGGAAA	C GCAGAAGAGG	2760
	AATGTGCAAC	ATTCTCTGCC	: CACTCTGGGT	CCTTAAAGAA	ACAAAGTCC	Δ Δ Δ CTC Δ CTT	2820
10	TTGAATGTGA	ACAAAAGGAA	. GAAAATCAAG	GAAAGAATGA	GTCTAATATC	AAGCCTGTAC	2880
10	AGACAGTTAA	TATCACTGCA	. GGCTTTCCTG	: TGGTTGGTCA	GAAAGATAAC	CCAGTTGATA	2940
	ATGCCAAATG	TAGTATCAAA	. GGAGGCTCTA	GGTTTTGTCT	ATCATCTCAC	TTCAGACCCA	3000
<u> Lind</u>	AUGAAACTGG	ACTCATTACT	CCAAATAAAC	ATGGACTTTT	ACAAAACCCA	ТАТССТАТАС	3060
i de la	CACCACTTTT	TCCCATCAAG	TCATTTGTTA	. AAACTAAATG	TAAGAAAAT	CTGCTAGAGG	3120
15	AAAACTTTGA	GGAACATTCA	ATGTCACCTG	AAAGAGAAAT	GGGAAATGAG	AACATTCCAA	3180
40	GTACAGTGAG	CACAATTAGC	CGTAATAACA	. TTAGAGAAAA	TGTTTTTAAA	GGAGCCAGCT	3240
	CAAGCAATAT	TAATGAAGTA	GGTTCCAGTA	CTAATGAAGT	GGGCTCCAGT	' ΔΥΥΔΔΥΩΔΑΛ	3300
	TAGGTTCCAG	TGATGAAAAC	ATTCAAGCAG	AACTAGGTAG	AAACAGAGGG	CCDDAATTCA	3360
M	ATGCTATGCT	TAGATTAGGG	GTTTTGCAAC	CTGAGGTCTA	TAAACAAAGT	CTTCCTGGAA	3420
Li.	GTAATTGTAA	GCATCCTGAA	ATAAAAAAGC	AAGAATATGA	AGAAGTAGTT	CACACTCTTA	3480
20	ATACAGATTT	CTCTCCATAT	CTGATTTCAG	ATAACTTAGA	ACAGCCTATG	GGAAGTAGTC	3540
25	ATGCATCTCA	GGTTTGTTCT	GAGACACCTG	ATGACCTGTT	AGATGATGGT	GAAATAAAGG	3600
2	AAGATACTAG	TTTTGCTGAA	AATGACATTA	AGGAAAGTTC	TGCTGTTTTT	AGCAAAAGCG	3660
74 Table 2	TCCAGAGAGG	AGAGCTTAGC	AGGAGTCCTA	GCCCTTTCAC	CCATACACAT	TTGGCTCAGG	3720
25	GTTACCGAAG	AGGGGCCAAG	AAATTAGAGT	CCTCAGAAGA	GAACTTATCT	AGTGAGGATG	3780
TP	AAGAGCTTCC	CTGCTTCCAA	CACTTGTTAT	TTGGTAAAGT	AAACAATATA	CCTTCTCTCTCT	3840
Spirite.	CTACTAGGCA	TAGCACCGTT	GCTACCGAGT	GTCTGTCTAA	GAACACAGAG	GAGAATTTAT	3900
Accella.	TATCATTGAA	GAATAGCTTA	AATGACTGCA	GTAACCAGGT	AATATTGGCA	AAGGCATCTC	3960
	AGGAACATCA	CCTTAGTGAG	GAAACAAAAT	GTTCTGCTAG	CTTGTTTTCT	TCACAGTGCA	4020
30	GTGAATTGGA	AGACTTGACT	GCAAATACAA	ACACCCAGGA	TCCTTTCTTG	ATTGGTTCTT	4080
30	CCAAACAAAT	GAGGCATCAG	TCTGAAAGCC	AGGGAGTTGG	TCTGAGTGAC	AAGGAATTGG	4140
	TTTCAGATGA	TGAAGAAAGA	GGAACGGGCT	TGGAAGAAAA	TAATCAAGAA	GAGCAAAGCA	4200
	TGGATTCAAA	CTTAGGTGAA	GCAGCATCTG	GGTGTGAGAG	TGAAACAAGC	GTCTCTGAAG	4260
	ACTGCTCAGG	GCTATCCTCT	CAGAGTGACA	TTTTAACCAC	TCAGCAGAGG	GATACCATGC	4320
35	AACATAACCT	GATAAAGCTC	CAGCAGGAAA	TGGCTGAACT	AGAAGCTGTG	TTAGAACAGC	4380
55	ATGGGAGCCA	GCCTTCTAAC	AGCTACCCTT	CCATCATAAG	TGACTCCTCT	GCCCTTGAGG	4440
	ACCTGCGAAA	TCCAGAACAA	AGCACATCAG	AAAAAGCAGT	ATTAACTTCA	CAGAAAAGTA	4500
	GTGAATACCC	TATAAGCCAG	AATCCAGAAG	GCCTTTCTGC	TGACAAGTTT	GAGGTGTCTG	4560
	CAGATAGTTC	TACCAGTAAA	AA'I'AAAGAAC	CAGGAGTGGA	AAGGTCATCC	CCTTCTAAAT	4620
40	GCCCATCATT .	AGATGATAGG	TGGTACATGC	ACAGTTGCTC	TGGGAGTCTT	CAGAATAGAA	4680
70	ACTACCCATC	TCAAGAGGAG	CTCATTAAGG	TTGTTGATGT	GGAGGAGCAA	CAGCTGGAAG	4740
	AGTCTGGGCC	ACACGATTTG	ACGGAAACAT	CTTACTTGCC	AAGGCAAGAT	CTAGAGGGAA	4800
	CCCCTTACCT	GGAATCTGGA	ATCAGCCTCT	TCTCTGATGA	CCCTGAATCT	GATCCTTCTG	4860
	AAGACAGAGC	CCCAGAGTCA	GCTCGTGTTG	GCAACATACC	ATCTTCAACC	TCTGCATTGA	4920
45	AAGTTCCCCA	ATTGAAAGTT	GCAGAATCTG	CCCAGGGTCC	AGCTGCTGCT	CATACTACTG	4980
73	ATACTGCTGG (GTATAATGCA	ATGGAAGAAA	GTGTGAGCAG	GGAGAAGCCA	GAATTGACAG	5040
	CTTCAACAGA	AAGGGTCAAC	AAAAGAATGT	CCATGGTGGT	GTCTGGCCTG	ACCCCAGAAG	5100
	AATTTATGCT (JGTGTACAAG	TTTGCCAGAA	AACACCACAT	CACTTTAACT	AATCTAATTA	5160



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Mutations in the BRCA1 Gene Attorney Docket No: 05371.0032.999

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1863 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

1000			(2	2) IN	IFORM	1ATIC	N FC	R SE	Q II	NO:	2:					
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		(xi)	SEQU	ENCE	DES	CRIP	TION	: SE	Q ID	NO:	2:				
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				20					25					30		Lys
25			35					40					45			Met
25		50					55					60				Cys
	65					70					75					Ser 80
30				Glu	85				•	90					95	
				Glu 100					105					110		
25			115	Glu				120					125			
35		130		Asn			135					140				
	145			Gln		150					155					160
40				Thr	165					170					175	
	Ser	Val	Tyr	Ile 180	Glu	Leu	Gly	Ser	Asp 185	Ser	Ser	Glu	Asp	Thr 190	Val	Asn





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	300)				310					315					Arg 320
					325					330					335	Thr
20				340					345					350		Glu
			355					360					365			Glu
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30				420					425			Lys		430		
			435					440				Ser	445			
35		450					455					Ile 460				
	465					470					475	His				480
					485					490		Ile			495	
40				500					505			Pro		510		
			212					520				Ala	525			
45		530					535					Glu 540				
-	545					550					555	Lys				560
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	Ala 705	a Pr	o Gl	y Ser	Phe	Thr	Lys	з Суз	s Se	r A	sn	Thr 715	Ser	Glu	. Leu	Lys	Glu
20	Phe	∍ Va	l Asr	n Pro	Ser 725	Let		Arç	g Gl	u G	lu 30	Lys	Glu	Glu	Lys		720 Glu
	Thr	· Va	l Lys	Val 740	Ser	Asn	Asr	Ala	Gl:	ı A	sp	Pro	Lys	Asp			Leu
25	Ser	Gl	y Glu 755	Arg	Val	Leu	Glr	Thr. 760	Gli	ı A	rg	Ser	Val		750 Ser	Ser	Ser
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Specific	Leu 785	Let	ı Glu	Val	Ser	Thr 790			Lys	s Al	la	Lys	780 Thr	Glu	Pro	Asn	Lys
30	Cys	Va]	. Ser	Gln	Cys 805		Ala	Phe	Glu	ı As	sn.	795 Pro	Lys	Gly	Leu	Ile	800 His
	Gly	Cys	Ser	Lys 820		Asn	Arg	Asn	Asp	81 Th	ır	Glu	Gly	Phe	Lys	815 Tyr	Pro
35	Leu	Gly	His 835		Val	Asn	His	Ser	825 Arg	Gl	u '	Thr	Ser	Ile	830 Glu	Met	Glu
	Glu	Ser 850	Glu	Leu	Asp	Ala	Gln	840 Tyr	Leu	Gl	n i			845 Phe	Lys	Val	Ser
	Lys 865		Gln	Ser	Phe	Ala 870	855 Leu	Phe	Ser	As	n l	Pro	860 Gly	Asn	Ala	Glu	Glu
40		Cys	Ala	Thr	Phe 885		Ala	His	Ser	Gl	у 5	375 Ser :	Leu	Lys	Lys	Gln	880 Ser
	Pro	Lys	Val	Thr		Glu	Cys	Glu	Gln	89 Ly	0 s (Glu (Glu.	Asn	Gln	895 Gly	Lys
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20	Leu	Gl: 10:	n Pr 90	o Gl	u Va	1 Ty	r Ly	/s 0)95	Sln	Ser	Leu	Pro	Gly	108 Ser	5 Asn	Cys	Lys	3
Si Spenike	His 110	Pro 5	o Gl	u Il	e Ly	s Ly 11	s Gl	n G	lu	Tyr	Glu	Glu	110 Val	Val	Gln	Thr	. Val	L
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25	Met	Gl	/ Se	r Se	r Hi:	s Ala	a Se	r G	ln	Val	1130 Cys	Ser	Glu	Thr	Pro	113 Asp	5 .Asp	>
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	Glu Ser Gln Gly Val Gly Leu Ser Asp Lys Glu Leu Val Ser Asp Asp
	1330 1335 1340
	Glu Glu Arg Gly Thr Gly Leu Glu Glu Asn Asn Gln Glu Glu Gln Ser
5	+030
	Met Asp Ser Asp Leu Gly Gly Ala Ala Gardia
	Met Asp Ser Asn Leu Gly Glu Ala Ala Ser Gly Cys Glu Ser Glu Thr
	Ser Val Ser Glu Asp Cys Ser Gly Leu Ser Ser Gln Ser Asp Ile Leu
10	
	Thr Thr Gln Gln Arg Asp Thr Met Gln His Asn Leu Ile Lys Leu Gln 1395
of Distriction	1400
Control of the contro	Gln Glu Met Ala Glu Leu Glu Ala Val Leu Glu Gln His Gly Ser Gln
	1415
1	Pro Ser Asn Ser Tyr Pro Ser Ile Ile Ser Asp Ser Ser Ala Leu Glu
	1430 1436 144
71	Asp Leu Arg Asn Pro Glu Gln Ser Thr Ser Glu Lys Ala Val Leu Thr
M	1445 1450 1465
	Ser Gln Lys Ser Ser Glu Tyr Pro Ile Ser Gln Asn Pro Glu Gly Leu
60	1460 1465
20	Ser Ala Asp Lys Phe Glu Val Ser Ala Asp Ser Ser Thr Ser Lys Asn
a se	1480
Saute Saute	Lys Glu Pro Gly Val Glu Arg Ser Ser Pro Ser Lys Cys Pro Ser Leu
Anna Anna Anna Anna	1495
in the second	Asp Asp Arg Trp Tyr Met His Ser Cys Ser Gly Ser Leu Gln Asn Arg
25	1510 1515
Sec.	Asn Tyr Pro Ser Gln Glu Glu Leu Ile Lys Val Val Asp Val Glu Glu
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	Gln Gln Leu Glu Ser Gly Pro His Asp Leu Thr Glu Thr Ser Tyr
30	Leu Pro Arg Gln Asp Leu Glu Gly Thr Pro Tyr Leu Glu Ser Gly Ile
	Ser Leu Phe Ser Asp Asp Pro Glu Ser Asp Pro Ser Glu Asp Arg Ala
	1570 1575 1580 Asp Arg Ala
35	Pro Glu Ser Ala Arg Val Gly Asn Ile Pro Ser Ser Thr Ser Ala Leu 1585
	1090
	Lys Val Pro Gln Leu Lys Val Ala Glu Ser Ala Gln Gly Pro Ala Ala
•	Ala His Thr Thr Asp Thr Ala Gly Tyr Asn Ala Met Glu Glu Ser Val
40	1625
.0	Ser Arg Glu Lys Pro Glu Leu Thr Ala Ser Thr Glu Arg Val Asn Lys
	1640 1645
	Arg Met Ser Met Val Val Ser Gly Leu Thr Pro Glu Glu Phe Met Leu
	1655
45	Val Tyr Lys Phe Ala Arg Lys His His Ile Thr Leu Thr Asn Leu Ile
~+ 3	1675
	Thr Glu Glu Thr Thr His Val Val Met Lys Thr Asp Ala Glu Phe Val
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Cys	Glu	Ara	Thr	Leu	Lys	Тиг	Dha	Lou	C1.	. Tl.	2.1	~ .			
			1/0	ı U				170	5				171	^	
Val	Val	Ser	Tyr	Phe	Trp	Val	Thr	Gln	Ser	Ile	Lys	Glu	Arg	Lvs	Met
			_				1/2	()				170	~		
Leu	Asn 173	Glu O	His	Asp	Phe	Glu	Val	Arg	Gly	Asp	Val	Val	Asn	Gly	Arg
Aen		-	C1	D		1/3	5				174	0			
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	TO TO	,				TSTE)				1020	١			
Gly 1825	Gln	Met	Cys	Glu	Ala 1830	Pro	Val	Val	Thr	Arg	Glu	Trp	Val	Leu	
Ser	Val	Ala	Len	Tur	Gln	Cuc	C1-	C1	-	1835	'				184
				1845	Gln	Cys	GIII	GLU	Leu	Asp	Thr	Tyr	Leu	Ile	Pro
Gla	Tla	D	TT 2 -						1850)				1855	
OT11	тте	rro	H1S 1860		His	Tyr									
			T000	1											

- (2) INFORMATION FOR SEQ ID NO:3:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
- 30 AATCTTAGAG TGTCCCA

5

10

35

17

- (2) INFORMATION FOR SEQ ID NO:4:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

ATCTTAGTGT CCCACCT

17



(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:



5	(A) LENGTH: 17 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
	CAGAAAAAA GGTAGAT	17
Second Second Second	(2) INFORMATION FOR SEQ ID NO:6:	1
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
jerë Graj	CAGAAAAAA AGGTAGA	17
Hone Bear Bone Burn Rech	(2) INFORMATION FOR SEQ ID NO:7:	17
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
	AGAGAATCCC AGGACAG •	17
25	(2) INFORMATION FOR SEQ ID NO:8:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
	AGAGAATCCC CAGGACA	17



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(2)	INFORMATION	FOR	SEO	TD	NO.O.
\ - /	THEOMETICA	LOK	3 P.C	1 1 1	N() • 4

(1) SF	COUENC	E CH	$\Delta R \Delta C$	ים יבידי	アクマナ	CC.

- (A) LENGTH: 17 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

AGGACCTGCG AAATCCA

17

- (2) INFORMATION FOR SEQ ID NO:10:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AGGACCTGTG AAATCCA

17